HENDERSON'S DICTIONARY OF

Biological Terms

Eleventh Edition

Eleanor Lawrence



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basal cell

composed of microtubules. It organizes the assembly and arrangement of the microtubules of the axoneme. alt. basal granule.

basal cell cell in lowest layer of a stratified tissue, such as epidermis and other epithelia, and from which that tissue is renewed; (mycol.) uninucleate cell which supports the dome and tip of a hyphal crozier; (zool.) contractile epithelial cell, as in coelenterates.

basal disc in corals, the area of ectoderm that secretes the calcareous skeleton; in hydra, lower end of body by which it attaches to substratum.

basal ganglia masses of grey matter in cerebral hemispheres which connect with other brain centres, involved in motor control.

basal knobs swellings or granules at points of emergence of cilia in ciliated epithelial cells.

basal lamina thin collagenous layer underlying many epithelia, forming part of the basement membrane separating the epithelial layer from underlying tissues; layer of extracellular matrix lying between nerve terminal and muscle membrane and surrounding muscle and nerve terminals.

basal leaf one of the leaves produced near base of stem, a radical leaf.

basal metabolic rate minimum metabolic rate required for survival, measured in humans at complete rest in a thermally neutral environment after fasting for 12 hours.

basal metabolism normal state of metabolic activity of organism at rest.

basal placentation condition where ovules are situated at the base of the ovary.

basal plates fused parachordal plates in developing skull; of placentae, outer wall of intervillous space; certain plates in echinoderms, situated at top of stalk in crinoids, in echinoids forming part of the apical disc.

basal ridge a ridge around base of crown in a tooth.

basalar a. appl. sclerites below the base of wing in insects.

basale n. bone of variable structure supporting fish fins.

basapophysis n. a transverse process arising from the ventrolateral side of a vertebra.

base n. a substance that accepts a H⁺ ion (proton) in solution; in biochemistry often refers to the nitrogenous bases, the purine and pyrimidine constituents of nucleotides.

base analogue a substance chemically similar to one of the normal nucleotide bases and which is incorporated into DNA, often causing mutations.

base exchange capacity the extent to which exchangeable cations can be held in a soil. alt. cation exchange capacity.

base pair (bp) a single pair of complementary nucleotides from opposite strands of the DNA double helix. The number of base pairs is used as a measure of length of a double-stranded DNA.

base pairing weak bonding between purine and pyrimidine bases within nucleic acids, adenine pairing with thymine (in DNA) or uracil (in RNA) and cytosine with guanine (DNA and RNA).

base ratio the ratio of the bases (A+T)/ (C+G) in DNA, which varies widely from species to species.

base-rich a. soils containing a relatively large amount of free basic ions such as magnesium or calcium.

base sequence see nucleotide sequence. base sequencing see DNA sequencing.

base substitution replacement of one nucleotide with another in DNA.

many types of epithelia from underlying tissues, consisting of basal lamina, mucopolysaccharides and a fine fibrous meshwork.

basibranchial n. central ventral or basal skeletal portion of branchial arch.

basibranchiostegal urohyal q.v.

basic a. having the properties of a base; appl. stains which act in general on the nuclear contents of the cell; appl. number, (i) the minimum haploid chromosome number occurring in a series of euploid species in a genus, (ii) chromosome number in gametes of diploid ancestor of a polyploid organism; of soils, rich in alkaline minerals.

basicranial a. situated or relating to base of skull.

basidia plu. of basidium q.v.

basidiocarp n. the fruiting body of basidiomycete fungi, which bears the basidia.

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